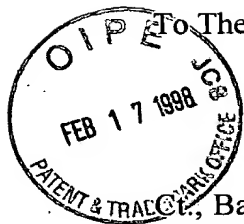


DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

I, William M. Woodard, declare:

that I am a citizen of the United States of America residing at 1301 Ravenwood Ct., Bartlesville, Oklahoma 74003 and having a post office address of 1301 Ravenwood Ct., Bartlesville, Oklahoma 74003;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Wherefore I pray that Letters Patent be granted to Phillips Petroleum Company, a corporation organized and existing under the laws of the State of Delaware and domiciled and having an office at Bartlesville, Oklahoma, as assignee, for the invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification and claims, declaration, power of attorney and this petition.

Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

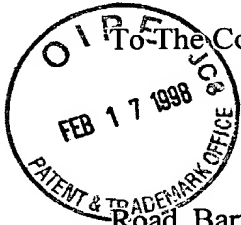
Inventor

William M. Woodard
William M. Woodard

Date

Oct 23, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

I, Warren M. Ewert, declare:

that I am a citizen of the United States of America residing at 3606 E. Mountain Road, Bartlesville, Oklahoma 74003 and having a post office address of 3606 E. Mountain Road, Bartlesville, Oklahoma 74003;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

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and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Warren M. Ewert
Warren M. Ewert

Date

November 3, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION



To: The Commissioner of Patents and Trademarks:

I, Harvey D. Hensley, declare:

that I am a citizen of the United States of America residing at 2527 Dorchester, Bartlesville, Oklahoma 74006 and having a post office address of 2527 Dorchester, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Harvey D. Hensley
Harvey D. Hensley

Date

Oct 23, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

I, Mark E. Lashier, declare:

that I am a citizen of the United States of America residing at 2901 Kingston Drive, Bartlesville, Oklahoma 74006; and having a post office address of 2901 Kingston Drive, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

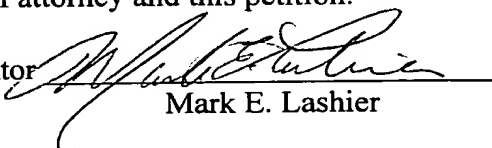
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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor


Mark E. Lashier

Date

27 October 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

Bruce E. Kreischer declare:

that I am a citizen of the United States of America residing at 504 Dorsett Court, Bartlesville, Oklahoma 74006; and having a post office address of 504 Dorsett Court, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:
c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor Bruce E. Kreischer
Bruce E. Kreischer

Date 10/28/97

DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

I, Glyndal D. Cowan, declare:

that I am a citizen of the United States of America residing at 3921 NE Nebraska, Bartlesville, Oklahoma 74006; and having a post office address of 3921 NE Nebraska, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:
c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Glyndal D. Cowan
Glyndal D. Cowan

Date

Oct 28 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION



To The Commissioner of Patents and Trademarks:

I, Jeffrey W. Freeman, declare:

that I am a citizen of the United States of America residing at 1435 Lariate Drive, Bartlesville, Oklahoma 74006; and having a post office address of 1435 Lariat Drive, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Ralph V. Franklin, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Jeffrey W. Freeman
Jeffrey W. Freeman

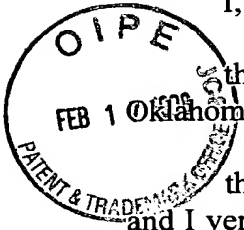
Date

10/28/97

DECLARATION, POWER OF ATTORNEY, AND PETITION

To The Commissioner of Patents and Trademarks:

I, Ralph V. Franklin, declare:



that I am a citizen of the United States of America residing at 544 S. Rogers, Nowata, Oklahoma 74048; and having a post office address of 544 S. Rogers, Nowata, Oklahoma 74048;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ronald D. Knudsen, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor Ralph V. Franklin
Ralph V. Franklin

Date November 3, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION

To The Commissioner of Patents and Trademarks:

I, Ronald D. Knudsen, declare:



that I am a citizen of the United States of America residing at 1412 Meadow Lane, Bartlesville, Oklahoma 74006; and having a post office address of 1412 Meadow Lane, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Richard L. Anderson, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Ronald D. Knudsen
Ronald D. Knudsen

Date

Oct 28, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION

To The Commissioner of Patents and Trademarks:

I, Richard L. Anderson, declare:

that I am a citizen of the United States of America residing at 6415 Trail Drive, Bartlesville, Oklahoma 74006; and having a post office address of 6415 Trail Drive, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, and Lyle R. Kallenbach are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

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Correspondence Address:

c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

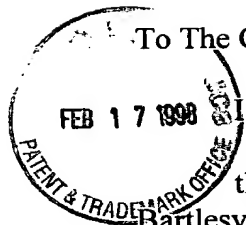
Richard L. Anderson
Richard L. Anderson

Date

Oct 27, 1997

DECLARATION, POWER OF ATTORNEY, AND PETITION

To The Commissioner of Patents and Trademarks:



I, Lyle R. Kallenbach, declare:

that I am a citizen of the United States of America residing at 1208 Meadow Lane, Bartlesville, Oklahoma 74006; and having a post office address of 1208 Meadow Lane, Bartlesville, Oklahoma 74006;

that I have reviewed and understand the contents of the attached specification and claims and I verily believe I, William M. Woodard, Warren M. Ewert, Harvey D. Hensley, Mark E. Lashier, Bruce E. Kreischer, Glyndal D. Cowan, Jeffrey W. Freeman, Ralph V. Franklin, Ronald D. Knudsen, and Richard L. Anderson are the original, first, and joint inventors or discoverers of the invention or discovery in **OLEFIN PRODUCTION PROCESS** described and claimed therein and for which a patent is sought;

I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations § 1.56;

and I hereby appoint Edward L. Bowman, Registration No. 27,116; Carl D. Corvin, Registration No. 34,569; Ryan N. Cross, Registration No. 33,861; Beverly M. Dollar, Registration No. 32,870; John M. Fish, Jr., Registration No. 25,863; Gary L. Haag, Registration No. 35,529; Bion E. Hitchcock, Registration No. 26,613; Lynda S. Jolly, Registration No. 32,736; Allen W. Richmond, Registration No. 28,662; Lucas K. Shay, Registration No. 34,724; and Charles W. Stewart, Registration No. 34,023; who comprise the firm of **Richmond, Hitchcock, Fish & Dollar, P. O. Box 2443, Bartlesville, Oklahoma, 74005**, Registration No. 20,286; and Archie W. Umphlett, Registration No. 25,935, each attorney a member of the Bar of the State of Oklahoma or the District of Columbia; my representatives with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Wherefore I pray that Letters Patent be granted to Phillips Petroleum Company, a corporation organized and existing under the laws of the State of Delaware and domiciled and having an office at Bartlesville, Oklahoma, as assignee, for the invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification and claims, declaration, power of attorney and this petition.

Correspondence Address:
c/o **RICHMOND, HITCHCOCK,
FISH & DOLLAR
P.O. Box 2443
Bartlesville, Oklahoma 74005**

Inventor

Lyle R. Kallenbach
Lyle R. Kallenbach

Date

Nov 3 1997